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WHAT IS CLAIMED IS:

- 1. A method of modulating an immune system response to an antigen in a mammal, said method comprising administering to said mammal a particle-free therapeutic comprising a hyaluronic acid polymer analogue covalently linked to at least one peptide that comprises a T cell epitope recognized by an MHC molecule of said mammal, wherein said T cell epitope is defined by a sequence of at least about eight amino acids of said antigen.
- 2. The method of Claim 1 wherein said T cell epitope is recognized by an MHC Class I molecule and by a CD8⁺ T cell of said mammal.
- 3. The method of Claim 1 wherein said T cell epitope is recognized by an MHC Class II molecule and by a CD4⁺ T cell of said mammal.
- 4. The method of Claim-2 wherein said immune system response comprises a cytotoxic T lymphocyte that recognizes said antigen.
- 5. The method of Claim 2 wherein said immune system response comprises a CD4⁺ T cell that recognizes said antigen.
- 6. The method of Claim 1 wherein said immune system response comprises an antibody that recognizes said antigen.
- 7. The method of Claim 1 wherein said immune system response to said antigen is increased after administration of said conjugate.
- 8. The method of Claim 7 wherein said antigen is an antigen of a pathogenic agent or a tumor cell.
 - 9. The method of Claim 3 wherein said immune system response to said antigen is decreased after administration of said conjugate.

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- 10. The method of Claim 9 wherein said antigen is an antigen of a tissue or organ transplanted to said mammal.
- 11. The method of <u>Claim 1</u> wherein said step of administering further comprises administering a plurality of conjugates each comprising at least one peptide that comprises a T cell epitope recognizable by an MCH molecule linked to a hyaluronic acid polymer analogue wherein the peptides of at least two such conjugates are different.
- 12. A method of improving MHC presentation of a T cell epitope of an antigen in a mammal comprising administering to said mammal a conjugate comprising particle-free hyaluronic acid polymer analogue covalently linked to a peptide that comprises a T cell epitope recognized by an MHC molecule of said mammal, wherein said T cell epitope is defined by a sequence of at least about eight amino acids of said antigen.
- 13. A pharmaceutical composition for administration to a mammal for improving MHC presentation of a T cell epitope of an antigen in said mammal, said composition comprising a conjugate comprising particle-free hyaluronic acid polymer analogue covalently linked to a peptide that comprises a T cell epitope recognized by an MHC molecule of said mammal, wherein said T cell epitope is defined by a sequence of at least about eight amino acids of said antigen.
- 20 14. A composition of matter comprising particle-free hyaluronic acid polymer analogue covalently linked to at least one peptide comprising a T cell epitope recognized by an MHC molecule of a mammal.